WET150

A multi-parameter sensor that measures the dielectric properties of the soil and provides three measurements:
water content, electrical conductivity and temperature.
The sensor is suitable for use in both mineral soils and soilless media

Benefits & Features

→ Cost-efficient

→ Easy installation

→ Suitable for many soil types and growing media

→ Robust, designed to remain in the soil

Technical Specifications

Volumetric Water Content	
Accuracy	± 3% vol (with a calibration matching the soil/substrate)
Range	Accurate range: 5 to 100% vol, for soils up to 5 dS.m^{-1} Full range: 0-100% vol

Bulk Soil Conductivity (EC$_b$)	
Accuracy	± (6% of reading + 0.1 dS.m^{-1})
Operating range	Accurate range: 0 to 12 dS.m^{-1} Full range: 0 to 20 dS.m^{-1}

Temperature (WET150 must be fully berried to accurately measure soil temperature)		
Accuracy	± 0.5°C (32.9°F)	± 0.7°C (33.26°F)
Operating range	Accurate range: 0 to 40°C (32 to 104°F)	Full range: -20 to +60°C (-4 to 140°F)

Operating Specifications	
Interface	SDI-12 version 1.3
Cable length	Less than 100 m (328 ft)
Power requirement	12 V
Operating range	-20 to +60°C (-4 to 140°F) (sensor does not detect ice)
Environmental	IP68
Sample volume	55 x 70 mm (2.16 x 2.75 inch) diameter
Dimensions	143 x 40 mm (5.63 x 1.57 inch) diameter
Weight	77 g (2.71 oz) (without cable)

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→ Wiring Diagram

Terminal	Wire
+	⚪ White
RX	⚫ Black
−	🔵 Blue

→ Installation

1. Select the optimal location of the probe that represents the average condition of the crop in the plot
2. The sensor should be located around 10-15 cm from the dripper, within the wetted bulb and the active root zone. In growing bags, locate the probe in between drippers
3. It is recommended to place the sensor horizontally, to enable soil moisture and other measurements at a specific depth
4. Ensure good soil contact with the probe rods
5. Limit exposure to sunlight to the sensor body and the screw connection

→ Care & Maintenance

- Avoid touching the sensor rods if not necessary
- Ensure the connectors are clean and properly aligned before pushing the parts together
- Screw it firmly for a water-tight seal but do not over-tighten
- Do not pull the sensor out of the soil by its cable

→ Kit Contents

- WET150 sensor
- 5m (16.4 ft) cable
- Product sheet

→ Catalog Numbers

Description	Catalog Number
MULTI-PARAMETER SENSOR WET150-DELTAT	74730-000038

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